

DESCRIPTION

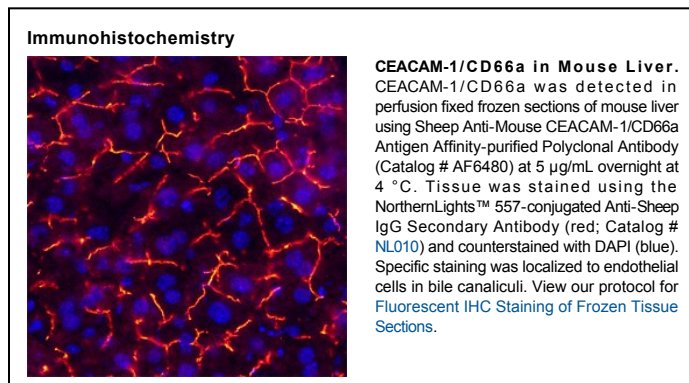
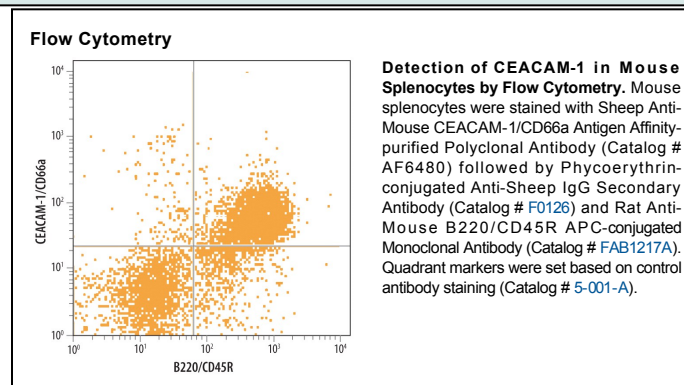
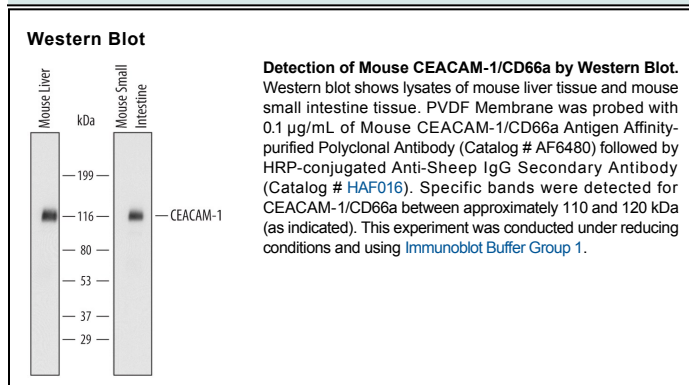
Species Reactivity	Mouse
Specificity	Detects mouse CEACAM-1/CD66a in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CEACAM-1/CD66a Met1-Gly428 Accession # P31809
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	See Below
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
Immunohistochemistry	5-15 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CEACAM-1 (Carcinoembryonic antigen-related cell adhesion molecule 1; also BGP-1, CD66a and MHVR1) is a 110-120 kDa member of the CEACAM subfamily, CEA family of proteins. It has a wide expression pattern, being found on neutrophils, dendritic cells, endothelial cells, colonic epithelium and hepatocytes. It mediates cell adhesion, and appears to regulate insulin levels and signaling by interacting with the insulin receptor. It also demonstrates proangiogenic effects by inducing endothelial cells to proliferate and form capillary-like tubules. Finally, CEACAM-1 is a known receptor for mouse hepatitis virus. Mature mouse CEACAM-1 is a 487 amino acid (aa) type I transmembrane glycoprotein. Its contains a 394 aa extracellular region (aa 35-428) that shows one V-type (aa 35-142) and three C2-type (aa 147-411) Ig-like domains, plus a 74 aa cytoplasmic domain. Three alternate splice forms exist. One contains a four aa substitution for aa 455-521, a second shows a Gln substitution for aa 142-322, and a third possesses a combination of the first two splice patterns. CEACAM-1 forms homodimers. Over aa 35-428, mouse CEACAM-1 shares 56% and 70% aa identity with human and rat CEACAM-1, respectively.